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ABSTRACT

Higher Horizons (HH) 100 is a program providing groups of 100 underachieving secondary school students in Hartford, Connecticut, with an integrated program of academic, cultural, and counseling services designed to develop and improve their basic skills in language and mathematics, self-concept, and adjustment to school. The eight small cluster settings allow intensive counseling, individualized instruction, and integrated cultural and educational activities, as well as a series of student run and staff directed projects. In the project's sixteenth year, HH 100 operates a ninth grade team at each of Hartford's high schools, a tenth grade team at one high school, and two teams at each of the middle schools, with funding from Title I. Each team is staffed by five or six teachers, a counselor, and a project aid. When recent fall-to-spring Metropolitan Achievement Test data were analyzed by team and by grade level, all gains were highly significant, exceeding the projected standard. The upgraded percentile-gain standard was reached by all but one team in reading, one grade level with a team in mathematics, and both grade levels within one team in language arts. At least 90% attendance was attained by all teams. Students reported a realistic and positive attitude toward themselves and school, on a self-rating measure similar to those used in previous years. (Author/HTH)

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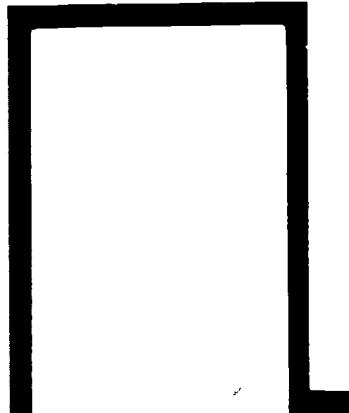
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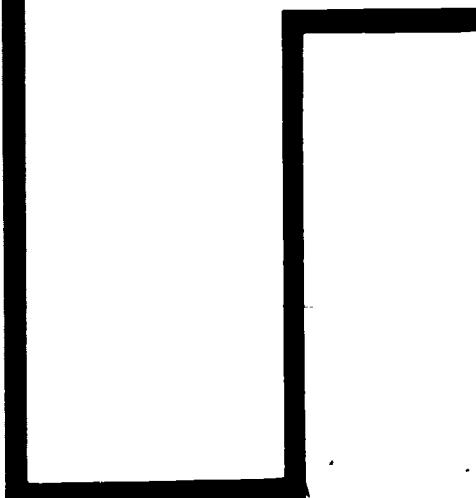
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HIGHER HORIZONS 100



REPORT 81-7

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HIGHER HORIZONS 100
- 1980-81 Compensatory Program Evaluation -
Report 81-7

Evaluation, Research, & Testing Office
Hartford Public Schools
249 High Street
Hartford, Connecticut 06103

July 1981

HIGHER HORIZONS 100

- 1980 - 1981 Compensatory Program Evaluation -

Services Provided

For the sixteenth consecutive year, Higher Horizons 100 (HH100) again provided groups of 100 underachieving secondary school students with an intergrated program of academic, cultural, and counseling services. Throughout these years the goals of the program have remained the same; to develop and improve the basic academic skills of language and mathematics, self-concept, and school adjustment for enrolled students.

Small classes provided in cluster settings, intensive counseling, individualized instruction, civic and educational trips, guest speakers, and a series of student-run activities are articulated so as to foster a basic philosophy which permeates the total program. Of the eight clusters which are supported with Title I funding, three serve ninth graders at each of the city's high schools, one is an HPHS tenth grade cluster and two serve each of the seventh and eighth grade middle schools. Clusters are staffed by a team of five or six teachers, a counselor, and a project aide. Title I funds also provide for limited supplies, a team leader differential for inter-team liaison services, and cultural activities although in more recent years trips and other activities have been largely supported by gifts from the business community and by funds raised by the youngsters.

Program Accomplishments

Because an important Higher Horizons concept is to help HH100 youngsters help themselves, several accomplishments in this area were reported. In order to involve students, parents and staff in the continuing operation of the program, a series of fund-raising strategies to include candy sales and Thanksgiving raffles were conducted by all teams. Proceeds were used to support field trips and team activities planned and operated for and by the youngsters. In addition, three teams also conducted

end-of-year student/parent banquets where the teaching staff recognized students not only for their academic successes but for progress in other areas as well.

The liaison reported that local business contributed both staff and money to the program. Contributors included Connecticut Bank and Trust Company, Connecticut Mutual Insurance Co., Connecticut General Insurance Co., Southern New England Telephone Company, Aetna Life and Casualty, Travelers Insurance Company, The Hartford Insurance Co., Hartford Steam Boiler Inspection & Insurance Co., Hartford National Bank, Savitts Jewelers, and the Phoenix Insurance Company.

It was reported that the eight teams continued to sponsor on-going speaker programs in an effort to broaden the career and educational expectations of the students. Speakers were obtained from private industry, the media, politics, the military and government agencies and were scheduled on a regular basis throughout the school year. Note here that these and other activities were directly tied to the overall instructional program.

To foster involvement and spirit, HH100 clusters also conducted a variety of extra-curricular activities. These included intra-mural volleyball, softball and basketball games; excursions to local roller skating rinks and bowling alleys; and a reception to the graduating HH100 alumni. Activities were conducted by staff members who worked on their own time with students and parents in the clusters. These events and trips to New York, area colleges, business sites, and points of historic importance were also course-related and thus were cited as an integral part of the program.

In addition to the activities and field trips, HH100 clusters also worked to actively involve parents in their child's program. Parents were encouraged to serve on local PACs to advise and oversee the functioning of the program, to work with the district PAC, and to become knowledgeable about the HH100 program. Parents also served as chaperones on class excursions and it was reported that these involvements contributed largely to overall program

success.

In order to examine long range program effects it was reported that a systematic longitudinal study of HH100 youngsters is being initiated. Using computer-stored MAT data it is expected that test results can be compared and evaluated at the end of a student's senior year. It is also anticipated that youngsters can be tracked in the HH100 program from grades seven through high school graduation. As part of this follow-up study, the liaison noted that graduating seniors would be asked to fill out a questionnaire in anticipation that student perceptions would give some idea of the influence which HH100 exerted on these students during their post-HH100 high school career.

Problem Areas

In the 1979-80 evaluation (Report 80-7), it was reported that problems with the level of supplementary staffing at Quirk had been partially resolved by the assignment of a creative writing teacher on a half-time basis. This position is being continued during the 1980-1981 school year although an additional .5 position is still needed to bring the staffing level up to regulatory standard.

The problem of funding the Quirk head counselor under Title I has been rectified and this position has been transferred to the general budget.

Even so, counselor service problems continue to persist since it was reported that counselors in both middle schools continue to service HH100 and mainstream students. This was reported as having been a persistent problem.

Evaluation

The HH 100 evaluation was intended to provide answers to two general questions:

1. Were services provided in accord with the funding proposal?
2. To what extent were project objectives met?

Question 1. Were services provided in accord with the funding proposal?

The team liaison's final report and data coding sheets were examined. In addition, correspondence and conversations with the liaison were considered. On the basis of this information it would appear that HH 100 operated substantially in accord with the funding proposal over the course of the school year with the exception of the middle school staffing problems which have already been reported. Note that both Fox Middle School counselors reported that the majority of their time was spent with non-HH 100 students despite the fact that the funding of 1 full position should result in at least the equivalent of 1 position's services split between the teams.

In the 1978-79 evaluation, it was first reported that substantial numbers of HH 100 youngsters were receiving a third year of services, particularly at HPHS and at WHS, and that two years of service was the general middle school rule. The liaison reported that this pattern has persisted for two reasons. At the middle school level, and at Fox Middle where the program is ungraded, youngsters are typically committed to the program for a two year period of time. At the high school levels, youngsters are generally continued if their tested skill levels have not reached the 35%ile, although these students are included on a lower priority basis. How this priority criterion was actually used could not be determined on the basis of the data at hand. A comparison of 1979-80 and 1980-81 enrollment patterns are shown in Table 1. Note here the trend for HH 100 to provide multi-year rather than single year services.

Table 1
Comparison of Enrollments by Year and Team,
1979-80 and 1980-81

Team	1st Year		2nd Year		3rd Year		4th Year		Other
	79-80	80-81	79-80	80-81	79-80	80-81	79-80	80-81	
HPHS-10	63	36	21	23	3	8	13	13	0
HPHS-9	58	43	4	18	21	41	2	0	0
WHS-9	55	47	2	6	35	45	0	0	0
BHS-9	87	90	0	0	0	0	0	0	0
Fox 7/8D	47	57	44	42	0	0	0	0	0
Fox 7/8P	57	59	38	0	0	0	0	0	0
Quirk-7	90	90	0	0	0	0	0	0	0
Quirk-8	23	18	68	62	0	0	0	0	0
Total	480	440	177	151	59	94	15	13	1
Total %	65.6	63.0	24.3	21.6	8.0	13.5	2.0	2.0	-

Question 2. To what extent were project objectives met?

The proposal listed three objectives:

Objective 1: Students will on the average make educationally significant gains of at least 6 percentile points in reading and in mathematics.

Objective 2: Students will on the average make a better percentage of attendance for the academic year than that of the hosting school grade level.

Objective 3: Students will acquire a realistic and positive attitude toward themselves and school.

Objective 1: Students will on the average make educationally significant gains of at least three percentile points in reading and in mathematics.

Objectives were assessed using several procedures. For all HH 100 teams, to include grade 10 for the first time, reading and

mathematics skill gains were measured by fall to spring testing with the 1978 edition of the Metropolitan Achievement Tests (MAT), given at the appropriate levels. In addition, since the teams also worked in other language areas, the MAT Language scores were also examined. Mean standard scores were analyzed using a t-test of related measures at the .05 level of confidence and were also converted to relative percentile placements so that a weighted normal curve equivalent gain could be calculated. While the MAT or Comprehensive Tests of Basic Skills (CTBS) scores which were collected during the previous spring and used as an admission criterion were also collected, a change in MAT editions from the older 1970 version at grades 7 - 9, and the use of the new 1978 MAT at all grade levels, 7 - 10, made a separate analysis of these data impractical. This analysis had been used to determine whether there were important differences between spring to spring and fall to spring testing in the past. It is planned that this analysis will be made next year, since HH 100 teams have consistently reported that since spring test data were often not available, fall pretesting was required by the teams. Since the new 1981 city-wide testing make-up procedures are expected to fill many of the missing data gaps, this analysis is expected to be of particular interest to the teams.

While the MAT test data are reported in several tables which follow, an explanation of the table headings may be in order.

- Teams and grade levels. MAT scores are reported by teams and by MAT sub-test; i.e., Reading, Math, and Language.
- N refers to the number of students who had both pre and post test scores on a particular subtest. While each team provided make-up testing, it is not unusual for an N to be lower than the actual team enrollment nor is it unusual for the N to differ from subtest to subtest since reading and math tests are usually given on separate days.
- Standard scores (SS). Standard scores represent a lineal score distribution scale which enables one to equate gains at any point on the scale. Unlike grade equivalent

(GE) increments, standard score gains of, for example, from 10 to 20 can be equated with gains from 90 to 100 since both represent the same relative amount of change. With the old GE system, a youngster who tested near the top of a reading test might go "up" 4 or 5 months by correctly completing only 1 or 2 questions, while another youngster who tested in the middle of the same test scale could complete the same additional number of questions but with no apparent change in GE score.

- The standard deviation (SD) is a measure of score distribution or variability. The higher the SD, the more the scores are spread out. Standard deviations are used to look at the scores pre and post so as to help determine if the group scores spread out, tightened up, or remained about the same.
- The difference (Dif) between pre and post test scores is determined by subtesting the average, or mean, pre-test score from the average post test score.
- To determine whether the difference between pre and post test scores has any educational meaning, a statistical technique called the t-test is used. A high t indicates that the change was in all probability a real one and not just a fluke of fate, while a low t indicates that any score difference should be taken with a grain of salt.
- A reported significance (Sig) level is really an estimate of probability. A reported significance level of .01 means that the difference is probably real in 99 out of 100 cases, while a reported .05 level represents a probability of 95 out of 100. Either level of significance is statistical evidence that the reported change is probably real. If the change is non-significant (NS) any apparent change should be viewed with caution.
- Percentiles (%iles). Percentile scores are used to show a relationship between student test scores and their norm group on a given test. The concept of percentile

gain is a simple one. If a percentile score shows the place where a youngster stands in relationship to his peers, then any percentile gain is good, while the maintenance of a percentile standing shows that the youngster is holding his own. Unfortunately, percentile gains like grade equivalent (GE) gains cannot be equated at different points on a scale. To equate gains from grade to grade and on different parts of the percentile scale, a Normal Curve Equivalent (NCE) scale is used. Normal Curve Equivalent (NCE). NCEs, like standard scores, represent units on an equi-distant scale. NCEs can be averaged and weighted so that a composite gain level for a program covering several grade levels and using different test levels can be computed. A weighted gain of 7 NCEs is considered a very conservative estimate of educationally significant gain. This is the level used by the developers of the Title I data reporting system. Other researchers, however, report that gains of 5 or more NCEs are also educationally significant.

Tables 2 through 4 show comparative fall to spring Reading, Mathematics, and Language MAT subtest scores for each of the eight HH 100 teams and for the program as a whole. Since some teams did not use the Language test in the fall, for these teams no spring data are reported. Note here that all mean differences were significant at the .01 level, thus reaching and exceeding the stated level of confidence.

Table 2
Comparison of Mean Metropolitan Reading Standard Score
Changes by Team and Grade, Fall 1980 - Spring 1981

Team	N	Pre Read	SD	Post Read	SD	Dif	t	Sig
HPHS-9	89	751.3	45.4	787.7	55.1	36.3	10.7	.01
HPHS-10	75	736.3	80.9	767.3	63.7	31.0	4.1	.01
WHS-9	92	740.2	46.2	765.7	45.1	22.5	6.7	.01
BHS-9	84	699.1	56.0	739.9	57.5	40.8	10.9	.01
Fox 7/8D								
Grade 7	51	695.1	44.2	726.0	60.2	30.9	5.1	.01
Grade 8	41	713.4	37.0	741.0	41.9	27.6	5.1	.01
Fox 7/8P								
Grade 7	30	680.2	48.8	729.5	35.7	49.3	7.3	.01
Grade 8	40	713.9	37.8	745.9	44.1	32.0	5.4	.01
Quirk-7	81	659.1	55.9	706.1	45.8	47.0	9.5	.01
Quirk-8	73	715.4	51.5	754.5	52.9	39.1	10.6	.01
Total	685	712.6	59.7	749.2	56.6	36.6	23.1	.01

Table 3
Comparison of Mean Metropolitan Mathematics Standard Score
by Team and Grade, Fall 1980 - Spring 1981

Team	N	Pre Math	SD	Post Math	SD	Dif	t	Sig
HPHS-9	88	731.5	83.2	782.3	58.0	50.8	5.9	.01
HPHS-10	76	729.6	58.1	763.4	53.7	33.8	8.5	.01
WHS-9	92	719.5	47.5	747.1	48.2	27.6	6.4	.01
BHS-9	86	703.3	52.6	730.0	58.7	29.7	6.4	.01
Fox 7/8D								
Grade 7	50	676.6	49.9	719.2	50.6	42.6	6.5	.01
Grade 8	41	683.3	38.3	720.9	33.6	37.6	6.5	.01
Fox 7/8P								
Grade 7	30	670.4	49.6	716.7	45.4	46.3	5.7	.01
Grade 8	50	696.8	43.0	728.6	36.8	31.8	6.4	.01
Quirk-7	80	636.9	56.7	716.5	56.1	79.6	12.7	.01
Quirk-8	73	693.1	92.8	747.5	46.9	54.4	5.9	.01
Total	686	696.1	68.1	739.4	51.6	43.3	17.9	.01

Table 4
Comparison of Mean Metropolitan Language Standard
Scores by Team and Grade, Fall 1980 - Spring 1981

Team	N	Pre Lang	SD	Post Lang	SD	Dif	t	Sig
HPHS-9	0							
HPHS-10	76	717.7	89.7	758.4	78.2	40.7	5.6	.01
WHS-9	0							
BHS-9	86	690.6	60.3	751.3	61.2	60.7	11.6	.01
Fox 7/8D Grade 7	50	682.6	58.2	715.6	63.6	33.0	4.8	.01
Grade 8	41	698.6	57.2	728.5	52.5	29.9	5.1	.01
Fox 7/8P Grade 7	30	661.6	48.0	735.5	57.6	73.9	8.4	.01
Grade 8	40	692.1	35.1	755.4	47.8	63.3	10.1	.01
Quirk-7	79	645.2	56.8	702.1	56.3	56.9	11.1	.01
Quirk-8	73	706.9	80.1	769.0	70.4	62.1	7.6	.01
Total	505	688.1	68.6	740.1	67.7	52.0	20.7	.01

Since the written objective stated that HH 100 students would on the average make at least 6%ile point gains in reading and in mathematics, it was necessary to compute average pre and post standard MAT scores by grade, equate these scores with percentile placements using fall and spring test norm data provided by the publisher, and then convert these percentiles to the linear Normal Curve Equivalent (NCE) scale. Note here that while any grade level percentile gains can be considered salutary, an overall measure of gain is needed for the project as a whole. This gain level has been calculated in terms of NCEs and is reported together with NCE changes for each of the 8 HH 100 teams by grade. These data are shown in tables 5 - 7 which follow.

Table 5
Comparison of Mean Reading Percentile Placement and NCE
Changes by Team and Grade, Fall 1980 - Spring 1981

Team & Grade	N	Pre Test %ile	Test NCE	Post Test %ile	Test NCE	Dif %ile	Dif NCE
HPHS-9	89	38	43.6	48	48.9	10	5.3
HPHS-10	75	23	34.4	26	36.5	3	2.1
WHS-9	92	32	40.1	38	43.6	6	3.5
BHS-9	84	20	32.3	26	36.5	6	4.2
FMS 7/8D Grade 7	50	28	37.7	36	42.5	8	4.8
Grade 8	41	28	37.7	34	41.3	6	3.6
FMS 7/8P Grade 7	30	23	34.4	38	43.6	15	9.2
Grade 8	40	28	37.7	36	42.5	8	4.8
Quirk-7	81	16	29.1	28	37.7	12	8.6
Quirk-8	73	28	37.7	40	44.7	12	7.0
Weighted Total	655						5.1

Table 6
Comparison of Mean Math Percentile Placement and NCE
Changes by Team and Grade, Fall 1980 - Spring 1981

Team & Grade	N	Pre Test %ile	Post Test %ile	Dif %ile	Dif NCE
	NCE		NCE		
HPHS-9	88	38	43.6	16	8.5
HPHS-10	75	32	40.1	6	3.5
WHS-9	92	34	41.3	6	3.4
BHS-9	86	28	37.7	6	3.6
FMS 7/8D Grade 7	50	40	44.7	4	2.1
Grade 8	41	26	36.5	18	10.3
FMS 7/8P Grade 7	30	38	44.7	6	2.1
Grade 8	40	32	40.1	16	8.8
Quirk-7	80	26	36.5	18	10.3
Quirk-8	73	30	39.0	26	14.2
Weighted Total	656				6.8

Table 7
Comparison of Mean Language Percentile Placement and NCE
Changes by Team and Grade, Fall 1980 - Spring 1981

Team & Grade	N	Pre Test %ile	Test NCE	Post Test %ile	Test NCE	Dif %ile	Dif NCE
HPHS-9							
HPHS-10	76	28	37.7	34	41.3	6	3.6
WHS-9							
BHS-9	86	26	36.5	40	44.7	14	8.2
FMS 7/8D Grade 7	50	42	45.8	40	45.8	0	0
Grade 8	41	34	41.3	36	42.5	2	1.2
FMS 7/8P Grade 7	30	36	42.5	48	48.9	12	6.4
Grade 8	40	32	40.1	46	47.9	14	7.8
Quirk-7	79	32	40.1	40	44.7	8	4.6
Quirk-8	73	36	42.5	50	50.0	14	7.5
Weighted Total	475						5.1

While fall to spring test data showed highly significant mean gain patterns exceeding the criterion standard, and for each team and grade level within each team, the analysis of mean percentile placement and NCE change was also impressive. Here the 6 percentile standard, which had been upgraded from the three percentile gain standard used in 1979-80, was met in all but one instance in Reading and in Math, and by all but two teams in Language. In Reading, HPHS-10 gained only 3 percentile points while in Math and Language, Fox 7D produced 4 and no mean percentile gains, respectively. The eighth grade of the same team gained only two percentile points in Language.

The Language test was not taken by the HPHS-9 and WHS-9 teams.

When the same percentiles were converted to NCEs and the gains assessed, program changes seemed even more impressive. While team gains ranged from 0 to 14 percentile points, one must remember that NCEs represent an equidistant scale, whereas percentiles tend to spread out at the scale ends and are "scrunched" together in the middle. Since the research literature indicates that any NCE gain is a salutary one, and that mean gains of five or more NCEs probably represent substantial changes which are due largely to program impact, weighted NCEs ranging from 5.1 in Reading and Language to 6.8 in Math which were reported for the project as a whole are good indicators of project success. Since highly significant mean gains were also reported for all teams, at each grade level and on all subtests, and since these same groupings met or exceeded the 6 percentile standard in 24 out of 28 analyses, the objective was assuredly attained.

Objective 2: Students...will achieve...a better percentage of attendance...than that of the hosting school grade level.

Since a static percentage criterion would work against teams in schools where good attendance is stressed, attendance standards were developed for each of the secondary schools. These standards were updated on the basis of the 1978-79 evaluation report and are shown together with team attainments in Table 8. Although the objective specified that team percentages of attendance would be compared with those of the hosting school, neither current end-of-year nor interim percentages for the last two years were available, so the listed criterion were used instead. Note that in all cases where data were available, team gains exceeded the established goal. Thus it would seem that the objective was attained and the standards exceeded by the teams and for the project as a whole.

Table 8
Comparison of HH 100 Attendance Percentages with School and
Grade Criterion, School Year 1980 - 1981

Team	Desired Percentage	Attendance	Gain Dif.
HPHS-9	90	90.6	.6
HPHS-10	90	94.6	4.6
WHS-2	90	94.5	4.5
BHS-9	90		
Fox 7/8D	92	92.6	.6
Fox 7/8P	92	94.8	4.8
Quirk-7	90	90.6	.6
Quirk-8	90	93.4	3.4
Total	90.5	92.8	2.7

Objective 3: Students...will acquire a realistic and positive attitude toward themselves and school.

To measure this objective a Pupil Rating Form (PRF) was given to all HH 100 students at the end of the school year. This form, which has been used by the teams since 1971, addressed three areas. One section contained 15 self-rating items which addressed areas where HH 100 might have helped the student during the school year while a second section asked the youngsters to assess their personal and scholastic growth in class, following through on assignments, and getting along with other youngsters. A third area contained four open-ended questions which asked students to identify the part of HH 100 which provided the most and least help and to list what they like best and disliked most about the program. Objective questionnaire data were coded on data processing sheets and aggregated for the program as a whole while the fill-ins were analyzed, grouped by category, and narratively interpreted. Objective data are shown in Table 9 with the narrative analysis following. Note here that ratings

were almost identical to those reported for the previous year.

Table 9
Analysis of HH 100 Team Program Rating Form Responses,
Spring 1981

	Much	Some	None	Some Adverse Effects	Cannot Judge	N
Do you think Higher Horizons has helped you so far this year to:						
1. Improve your reading ability?		4.3		1.0		672
2. Improve your study habits?		4.2				674
3. Improve your attitude toward learning?		4.3				673
4. Improve your classroom behavior?		4.1				673
5. Improve your out-of-class behavior?		3.8				674
6. Improve your getting along with your teachers?		4.2				674
7. Learn more about yourself?		4.1				672
8. Get specific help with your school work.		4.1				672
9. Get help in working out your personal problems?			3.4			671
10. Work toward a high school diploma?		4.3				673

	Much	Some	None	Some Adverse Effects	Cannot Judge	N
11. Look forward to an education training beyond high school?		4.1				674
12. Identify some talents and interests which are other than academic?		3.8				672
13. Expect to achieve at a higher level in school?		3.7				670
14. Increased your parents' interest in your school?		4.1				673
15. Improved your parents' interest in your school work?		4.1				673
How would you rate yourself?						
	All the time	Most of the time	some times	Only	Never	Cannot Judge
16. I do my homework.		3.5				674
17. I do not disturb others in the class when they are working.		3.6				674
18. I can easily explain my ideas to others.		3.8				674
19. I take part in class discussions.		3.7				674

		All the time	Most of the time	Only some times	Never	Cannot Judge	N
20.	I want to learn and to improve myself.	4.6					669
21.	When I come to school I am ready for the lesson and the tests of the day.		4.0				672
22.	I feel I am doing better in classwork.		4.2				673
23.	I get along with the other students in my class.		4.4				673
24.	I finish my work on time.		4.1				671
25.	I have confidence in myself.		4.4				669
26.	I do the very best I can.		4.3				673
27.	I do my work without having to be told to do it.		4.1				671

As can be seen from the mean pupil ratings, in virtually every case the youngsters reported that Higher Horizons had helped them to some extent in each of the areas queried. Further, the students also reported that school and inter-student activities were positive most of the time, that they wanted to learn and improve themselves virtually all of the time, and that they were getting along with other students and doing the best that they could most of the time.

While objective pupil ratings could be analyzed by computer, the analysis of the open-ended question data required that a

different procedure be used. Here comments were tallied, categorized, and narratively reported. Since several of the teams administered questionnaires anonymously, it was not possible to marry-up test and reported data by team or by grade level. This problem did not seem to have an impact on the overall presentation of the results.

In response to the question, "What part of Higher Horizons do you think has helped you most?", respondents indicated that the various subjects and teachers had helped them the most. Students also reported that subjects and trips were liked most about the Higher Horizons program. These responses mirrored those of the previous year and seemed to reflect the academic focus of the program.

When students were asked what they liked least about Higher Horizons, most of the responses were focused on homework or individual subject preferences. Students also suggested the need for more communications with teachers, study halls, less rigid rules, and more student involvement. The majority of commenters indicated no suggestions for improvement and nothing really disliked.

On the basis of these student self-reports, it appeared that HH 100 students were generally supportive to the program; that they viewed HH 100 as having been of help in many ways, and that they seemed to exhibit a positive perception of themselves in relation to schoolwork, school, and their academic future. Thus the objective can be reported as having been attained.

Conclusions and Recommendations

As the preceding sections of the report points out, all objectives were attained by the HH 100 youngsters. When fall to spring MAT standard scores were examined by team and by grade level, all gains were highly significant thus exceeding the .05 criterion level. When these same scores were converted to relative percentile placements, the upgraded standard of a 6%ile point gain was met by virtually all teams and grade levels.

In reading, only HPHS-10 failed to meet the gain standard while Fox 7/8D grade 7 did not meet the standard in mathematics nor did both grade levels of the same team meet the standard in language. All teams and all grade levels produced percentile point gains which in themselves were evidence of improvement.

When fall to spring MAT scores were converted to relative percentile scores, 24 out of the 28 analyses showed at least a 5 NCE gain. When weighted gain totals were calculated for the overall program, totals of 5.1 NCEs were reported in reading and language and 6.8 in mathematics. These weighted gains exceeded and in each of the three tested areas the research-set benchmark of 5 NCEs so as to indicate that educationally significant gains had taken place.

In keeping with previous year's ratings, pupil reactions to the program seem positive, realistic, and generally attuned to the academic impact of the program.

Although host school attendance percentages were not available, all team attendance averages exceeded 90% with a program average of 92.8 reported with gains above the 90% standard ranging from .6 to 4.8 percentile points.

On the basis of the foregoing, a series of updated recommendations seem in order.

1. Given the recommendation which was made last year, both the evaluation office and the project liaison have initiated steps to develop a systematic longitudinal evaluation of the program. As was noted in the Strengths section of this report, the liaison plans to conduct a longitudinal study of former Higher Horizons students during the remaining time that they are in high school. Further, now that the district is using the 1978 edition of the Metropolitan Achievement Test in grades 2 - 8, with a possible city-wide extension to grades 9 and 10 being considered, it may be possible to track the youngsters on the basis of MAT test scores. These scores, together with other

indications of student grades such as grade point averages, accomplishments in school and non-school activities, and movement from academic level to level should be examined. While the plans made by the HPHS team leader are to be applauded, further planning is still needed and all teams should be brought into the planning process. As was noted last year, the study should also be designed to provide a base for looking at post graduation accomplishments and should probably be started at the middle school levels as well. This is another reason for total team involvement.

2. Last year, the issue of how much is too much testing was raised in the evaluation. This issue was based upon similarities between spring and fall MAT test results. In 1980-81, the question could not be addressed since different editions of the MAT were used each year. Thus, fall to spring testing with the new 1978 MAT edition was an appropriate action on the part of the teams. Since the testing office has initiated plans to increase the number of youngsters tested, and since test scores were returned to the schools before the end of the academic year, scores were available for summer planning. Thus, the issue of spring-to-spring vs. fall-to-spring testing should be examined carefully next year. If appropriate test data are available on the youngsters, the possibility of cutting out fall testing should again be considered by the teams.

3. While this is not a team faulting, for the second consecutive year it was not possible to look at HH 100 team attendance accomplishments in comparison with host school levels. Up to date school attendance percentages were simply not available. Even so, since attendance standards can be expected to vary, the current attendance scale is a rigorous one and should

be used at least until more recent school-wide data are available. These are expected later during the year.

4. No problems were submitted with respect to initial student enrollments or to student attrition. The 754 youngsters served by the program represented about 94% of the 800 enrollment goal, and represented an increase by 27 students over the 727 enrolled last year. While this represents a substantial improvement, teams should continue to work toward full enrollments even if this means selecting from 106 to 115 eligible candidates for each team during the year. These numbers would allow normal student attrition to reduce enrollments to the 100 students per team target level. Since this level of "overbooking" is probably not detrimental to the program nor is there evidence that "underbooking" increases the quality of instruction, it must again be stressed that the latter certainly reduces the number of available student slots.
5. Finally, it was reported last year that HH 100 was being considered for selection as a State-validated program. The selection can be reported this year as another exemplary project success.

Robert J. Nearine
Evaluation, Research, & Testing Office
July 13, 1981

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APPENDIX

INSTRUCTIONS:

1. Prepare three copies
2. Retain a copy
3. Send two copies to address below by June 20, 1981

FOR STATE USE ONLY

Card	1	DATA	3	4	5	6	7
		CONTROL USE					

TO: Connecticut State Department of Education, Compensatory Program, P. O. Box 2219, Hartford, Ct. 06115

FROM: School District Name Hartford	CODE A 9 10 0 6 4	Project Title Higher Horizons	11 12 6
Type of Project (Enter code in box at right)	13	Project Setting Code: (See Instructions)	14 1
CODE: 1=Public, 2=Non-Public Completed by: Name and Telephone Number Robert J. Nearine 566-6074	1	Evaluation Done by: Name and Telephone Number Robert J. Nearine 566-6074	16 17 18
Number of attendance areas in district which are eligible for Title I services:			19 20 18
Number of attendance areas in district receiving Title I services:			

Project Information

Grade:	PK	K	1	2	3	4	5	6	7	8	9	10	11	12
Codes:	23-25	26-28	29-31	32-34	35-37	38-40	41-43	44-46	47-49	50-52	53-55	56-58	59-61	62-64
Pupils in Project	754								211	147	296	100		
Average Size of Instructional Groups									1:25	1:25	1:25	1:25	1:	1:
Estimated Average Hours Per Week of Instruction Per Child									25	25	25	25		
Estimated Average Total Hours for Project Year per Child									900	900	900	900		

Report The Number Of Staff Paid By Compensatory Funds And Staff Development Activities

	Admin-istrators	Teachers	Teacher Aides	Curriculum Specialists	Support Service Staff	Clerical Staff	Other Staff
Number Of Title I Staff Card 5	20-22	23-25	26-28	29-31	32-34	38-40	41-43
							4
Number of Title I Staff In Full Time Equivalents	44-47	48-51	52-55	56-59	60-63	64-67	68-71
Number of SADC Staff Card 6	20-21	22-23	24-25	26-27	28-29	30-31	32-33
Number of SADC Staff In Full Time Equivalents	34-37	38-41	42-45	46-49	50-53	54-57	58-61
Number of Title I Personnel Receiving Staff Development	61-62	63-64	65-66	67-68	69-70	71-72	73-74
Number of Non-Title I Personnel Receiving Staff Development Card 7	20-21	22-23	24-25	26-27	28-29	30-31	32-33

Project Expenditures for the past Fiscal Year (to nearest dollar). Allocation

Card 8 21 22 23 24 25 26 27	29 30 31 32 33 34 35	37 38 39 40 41 42 43
ESEA Title I Funds	SADC Public Funds	SADC Nonpublic Funds
3 6 6 2 7 5	31 32 33 34 35 36 37	39 40 41 42 43
44 45 46 47 48 49		
Local Compensatory Funds	Other Funds (please specify)	Total All Funds
		3 6 6 2 7 5

FORM 2: COMPENSATORY PROJECT REPORT - IMPACT DATA

FROM: SCHOOL DISTRICT NAME **Hartford** PROJECT TITLE **HH 100**

Please read the instructions and give the following information on the back of the form:

1. Project Objectives
2. Data Analysis and Interpretation
3. Project Recommendations

Type of Project

Code: 1=Public, 2=Non-public (enter code at right)

Project Code **1**

Subject Area

Code: 1=Reading, 2=Language Arts, 3=Mathematics (enter code)

Was Pretest used for Student Selection
Code: 1=yes 2=no (enter code)

If yes, was the State approved regression formula applied to data? Code: 1=yes, 2=no (enter code)

Test Name **Metropolitan Ach. Test** Edition **1978**

Type of Norm Used

Code: 1=National, 2=Local, 3=Other (enter code)

Testing Schedule

Code: 1=fall/spring, 2=spring/autumn, 3=fall/fall

If out-of-level testing was done at any grade, put the number "1" at the Grade level that apply.

If none, check box.

TESTING PROGRAM REPORT

Grade	Total Pupils in Project	# of Pupils who took pre/post test	Month of Pre/Post Testing	Name of Subtest	Pre/Post Battery Level	Pre/Post Form	PRETEST INFORMATION			POSTTEST INFORMATION			MCB Gain (Col. 11) - Col. 10	Weighted MCB Gain (Col. 13 x Col. 14)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							Mean Standard Score	Associated Percentile Equivalent	Associated Pretest MCB	Mean Standard Score	Associated Percentile Equivalent	Associated Posttest MCB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Grade 1 01	Card 12	Card 13	Card 14	Card 15	Card 16	Card 17	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Col. 14	Col. 15	Col. 16	Col. 17	Col. 18	Col. 19	Col. 20	Col. 21	Col. 22	Col. 23	Col. 24	Col. 25	Col. 26	Col. 27	Col. 28	Col. 29	Col. 30	Col. 31	Col. 32	Col. 33	Col. 34	Col. 35	Col. 36	Col. 37	Col. 38	Col. 39	Col. 40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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132	Card 133	Card 134	Card 135	Card 136	Card 137	Card 138	Card 139	Card 140	Card 141	Card 142	Card 143	Card 144	Card 145	Card 146	Card 147	Card 148	Card 149	Card 150	Card 151	Card 152	Card 153	Card 154	Card 155	Card 156	Card 157	Card 158	Card 159	Card 160	Card 161	Card 162	Card 163	Card 164	Card 165	Card 166	Card 167	Card 168	Card 169	Card 170	Card 171	Card 172	Card 173	Card 174	Card 175	Card 176	Card 177	Card 178	Card 179	Card 180	Card 181	Card 182	Card 183	Card 184	Card 185	Card 186	Card 187	Card 188	Card 189	Card 190	Card 191	Card 192	Card 193	Card 194	Card 195	Card 196	Card 197	Card 198	Card 199	Card 200	Card 201	Card 202	Card 203	Card 204	Card 205	Card 206	Card 207	Card 208	Card 209	Card 210	Card 211	Card 212	Card 213	Card 214	Card 215	Card 216	Card 217	Card 218	Card 219	Card 220	Card 221	Card 222	Card 223	Card 224	Card 225	Card 226	Card 227	Card 228	Card 229	Card 230	Card 231	Card 232	Card 233	Card 234	Card 235	Card 236	Card 237	Card 238	Card 239	Card 240	Card 241	Card 242	Card 243	Card 244	Card 245	Card 246	Card 247	Card 248	Card 249	Card 250	Card 251	Card 252	Card 253	Card 254	Card 255	Card 256	Card 257	Card 258	Card 259	Card 260	Card 261	Card 262	Card 263	Card 264	Card 265	Card 266	Card 267	Card 268	Card 269	Card 270	Card 271	Card 272	Card 273	Card 274	Card 275	Card 276	Card 277	Card 278	Card 279	Card 280	Card 281	Card 282	Card 283	Card 284	Card 285	Card 286	Card 287	Card 288	Card 289	Card 290	Card 291	Card 292	Card 293	Card 294	Card 295	Card 296	Card 297	Card 298	Card 299	Card 300	Card 301	Card 302	Card 303	Card 304	Card 305	Card 306	Card 307	Card 308	Card 309	Card 310	Card 311	Card 312	Card 313	Card 314	Card 315	Card 316	Card 317	Card 318	Card 319	Card 320	Card 321	Card 322	Card 323	Card 324	Card 325	Card 326	Card 327	Card 328	Card 329	Card 330	Card 331	Card 332	Card 333	Card 334	Card 335	Card 336	Card 337	Card 338	Card 339	Card 340	Card 341	Card 342	Card 343	Card 344	Card 345	Card 346	Card 347	Card 348	Card 349	Card 350	Card 351	Card 352	Card 353	Card 354	Card 355	Card 356	Card 357	Card 358	Card 359	Card 360	Card 361	Card 362	Card 363	Card 364	Card 365	Card 366	Card 367	Card 368	Card 369	Card 370	Card 371	Card 372	Card 373	Card 374	Card 375	Card 376	Card 377	Card 378	Card 379	Card 380	Card 381	Card 382	Card 383	Card 384	Card 385	Card 386	Card 387	Card 388	Card 389	Card 390	Card 391	Card 392	Card 393	Card 394	Card 395	Card 396	Card 397	Card 398	Card 399	Card 400	Card 401	Card 402	Card 403	Card 404	Card 405	Card 406	Card 407	Card 408	Card 409	Card 410	Card 411	Card 412	Card 413	Card 414	Card 415	Card 416	Card 417	Card 418	Card 419	Card 420	Card 421	Card 422	Card 423	Card 424	Card 425	Card 426	Card 427	Card 428	Card 429	Card 430	Card 431	Card 432	Card 433	Card 434	Card 435	Card 436	Card 437	Card 438	Card 439	Card 440	Card 441	Card 442	Card 443	Card 444	Card 445	Card 446	Card 447	Card 448	Card 449	Card 450	Card 451	Card 452	Card 453	Card 454	Card 455	Card 456	Card 457	Card 458	Card 459	Card 460	Card 461	Card 462	Card 463	Card 464	Card 465	Card 466	Card 467	Card 468	Card 469	Card 470	Card 471	Card 472	Card 473	Card 474	Card 475	Card 476	Card 477	Card 478	Card 479	Card 480	Card 481	Card 482	Card 483	Card 484	Card 485	Card 486	Card 487	Card 488	Card 489	Card 490	Card 491	Card 492	Card 493	Card 494	Card 495	Card 496	Card 497	Card 498	Card 499	Card 500	Card 501	Card 502	Card 503	Card 504	Card 505	Card 506	Card 507	Card 508	Card 509	Card 510	Card 511	Card 512	Card 513	Card 514	Card 515	Card 516	Card 517	Card 518	Card 519	Card 520	Card 521	Card 522	Card 523	Card 524	Card 525	Card 526	Card 527	Card 528	Card 529	Card 530	Card 531	Card 532	Card 533	Card 534	Card 535	Card 536	Card 537	Card 538	Card 539	Card 540	Card 541	Card 542	Card 543	Card 544	Card 545	Card 546	Card 547	Card 548	Card 549	Card 550	Card 551	Card 552	Card 553	Card 554	Card 555	Card 556	Card 557	Card 558	Card 559	Card 560	Card 561	Card 562	Card 563	Card 564	Card 565	Card 566	Card 567	Card 568	Card 569	Card 570	Card 571	Card 572	Card 573	Card 574	Card 575	Card 576	Card 577	Card 578	Card 579	Card 580	Card 581	Card 582	Card 583	Card 584	Card 585	Card 586	Card 587	Card 588	Card 589	Card 590	Card 591	Card 592	Card 593	Card 594	Card 595	Card 596	Card 597	Card 598	Card 599	Card 600	Card 601	Card 602	Card 603	Card 604	Card 605	Card 606	Card 607	Card 608	Card 609	Card 610	Card 611	Card 612	Card 613	Card 614	Card 615	Card 616	Card 617	Card 618	Card 619	Card 620	Card 621	Card 622	Card 623	Card 624	Card 625	Card 626	Card 627	Card 628	Card 629	Card 630	Card 631	Card 632	Card 633	Card 634	Card 635	Card 636	Card 637	Card 638	Card 639	Card 640	Card 641	Card 642	Card 643	Card 644	Card 645	Card 646	Card 647	Card 648	Card 649	Card 650	Card 651	Card 652	Card 653	Card 654	Card 655	Card 656	Card 657	Card 658	Card 659	Card 660	Card 661	Card 662	Card 663	Card 664	Card 665	Card 666	Card 667	Card 668	Card 669	Card 670	Card 671	Card 672	Card 673	Card 674	Card 675	Card 676	Card 677	Card 678	Card 679	Card 680	Card 681	Card 682	Card 683	Card 684	Card 685	Card 686	Card 687	Card 688	Card 689	Card 690	Card 691	Card 692	Card 693	Card 694	Card 695	Card 696	Card 697	Card 698	Card 699	Card 700	Card 701	Card 702	Card 703	Card 704	Card 705	Card 706	Card 707	Card 708	Card 709	Card 710	Card 711	Card 712	Card 713	Card 714	Card 715	Card 716	Card 717	Card 718	Card 719	Card 720	Card 721	Card 722	Card 723	Card 724	Card 725	Card 726	Card 727	Card 728	Card 729	Card 730	Card 731	Card 732	Card 733	Card 734	Card 735	Card 736	Card 737	Card 738	Card 739	Card 740	Card 741	Card 742	Card 743	Card 744	Card 745	Card 746	Card 747	Card 748	Card 749	Card 750	Card 751	Card 752	Card 753	Card 754	Card 755	Card 756	Card 757	Card 758	Card 759	Card 760	Card 761	Card 762	Card 763	Card 764	Card 765	Card 766	Card 767	Card 768	Card 769	Card 770	Card 771	Card 772	Card 773	Card 774	Card 775	Card 776	Card 777	Card 778	Card 779	Card 780	Card 781	Card 782	Card 783	Card 784	Card 785	Card 786	Card 787	Card 788	Card 789	Card 790	Card 791	Card 792	Card 793	Card 794	Card 795	Card 796	Card 797	Card 798	Card 799	Card 800	Card 801	Card 802	Card 803	Card 804	Card 805	Card 806	Card 807	Card 808	Card 809	Card 810	Card 811	Card 812	Card 813	Card 814	Card 815	Card 816	Card 817	Card 818	Card 819	Card 820	Card 821	Card 822	Card 823	Card 824	Card 825	Card 826	Card 827	Card 828	Card 829	Card 830	Card 831	Card 832	Card 833	Card 834	Card 835	Card 836	Card 837	Card 838	Card 839	Card 840	Card 841	Card 842	Card 843	Card 844	Card 845	Card 846	Card 847	Card 848	Card 849	Card 850	Card 851	Card 852	Card 853	Card 854	Card 855	Card 856	Card 857	Card 858	Card 859	Card 860	Card 861	Card 862	Card 863	Card 864	Card 865	Card 866	Card 867	Card 868	Card 869	Card 870	Card 871	Card 872	Card 873	Card 874	Card 875	Card 876	Card 877	Card 878	Card 879	Card 880	Card 881	Card 882	Card 883	Card 884	Card 885	Card 886	Card 887	Card 888	Card 889	Card 890	Card 891	Card 892	Card 893	Card 894	Card 895	Card 896	Card 897	Card 898	Card 899	Card 900	Card 901	Card 902	Card 903	Card 904	Card 905	Card 906	Card 907	Card 908	Card 909	Card 910	Card 911	Card 912	Card 913	Card 914	Card 915	Card 916	Card 917	Card 918	Card 919	Card 920	Card 921	Card 922	Card 923	Card 924	Card 925	Card 926	Card 927	Card 928	Card 929	Card 930	Card 931	Card 932	Card 933	Card 934	Card 935	Card 936	Card 937	Card 938	Card 939	Card 940	Card 941	Card 942	Card 943	Card 944	Card 945	Card 946	Card 94

Results and Recommendations

PROJECT OBJECTIVES

1. Students will on the average make gains of 6 percentile points in reading and math.
2. Students will on the average make better attendance [percentages] than the hosting school grade level.
3. Students will acquire a realistic and positive attitude towards themselves and school.

DATA ANALYSIS AND INTERPRETATION

1. Fall to spring MAT standard scores were analyzed using a test of related means at the .05 level by team and by grade. All gains were highly significant (.01). When mean standard scores were converted to percentiles the 6 percentile standard was met in all cases with the exception of one team (HPHS-10) in Reading. One seventh grade (FMS 7/80) in Math, and one team (FMS 7/80, grades 7 & 8) in Language. While NCE gains ranged from -0 to 14.2, weighted project NCE's ranged from 5.1 in Reading and Language to 6.8 in Math. The objective as a whole was attained.
2. While school attendance percentages were not available, projected attendance standards were met by all teams. The objective was attained.
3. Mean ratings on a spring pupil rating scale indicated the HH 100 had helped to some extent in all areas assessed. that the youngsters felt personal and scholastic growth took place most of the time, and that relationships to school and to other youngsters were positive most of the time. The objective was attained.

PROJECT RECOMMENDATIONS

See page 20.

FORM 2: COMPENSATORY PROJECT REPORT - IMPACT DATA

Please read the instructions and give the following information on the back of the form:

1. Project Objectives
2. Data Analysis and Interpretation
3. Project Recommendations

TESTING PROGRAM REPORT

Scores are included in this column only when the test manual converts scores to percentiles.

Results and Recommendations

PROJECT OBJECTIVES

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PROJECT RECOMMENDATIONS

See page 20.

FORM 2: COMPENSATORY PROJECT REPORT - IMPACT DATA

FROM: SCHOOL DISTRICT NAME Hartford PROJECT TITLE HH 100

Please read the instructions and give the following information on the back of the form:

1. Project Objectives
2. Data Analysis and Interpretation
3. Project Recommendations

Type of Project

Code: 1=Public, 2=Non-public (enter code at right)

Project Code 1

Subject Area

Code: 1=Reading, 2=Language Arts, 3=Mathematics (enter code)

3

Was Pretest used for Student Selection

Code: 1=yes 2=no (enter code)

1 If yes, was the State approved regression formula applied to data? Code: 1=yes, 2=no (enter code)

Test Name Metropolitan Ach. Test Edition 1978

Type of Norm Used

Code: 1=National, 2=Local, 3=Other (enter code)

1 Testing Schedule Code: 1=fall/spring, 2=spring/summer, 3=fall/fall

If out-of-level testing was done at any grade, put the number "1" at the Grade

2	3	4	5	6	7	8	9	10	11	12
30	31	32	33	34	35	36	37	38	39	40

If none, check box.

TESTING PROGRAM REPORT

Grade	Total Pupils in Project	# of Pupils who took pre/post Test	Month of Pre/Post Testing	Name of Subtest	Pre/Post Battery Level	Pre/Post Form	PRETEST INFORMATION			POSTTEST INFORMATION			NCE Gain (Col 13 - Col 10)	Weighted MCP Gain (Col 3 x Col 14)		
							Mean Standard Score	Associated Percentile Equivalent	Associated Pretest NCE	Mean Standard Score	Associated Percentile Equivalent	Associated Posttest NCE				
Card 1	Col. 2	Col. 1	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Col. 14	Col. 15		
Card 2	18 - 20	21 - 23	24	25	26	27	28	29	30 - 31	32 - 33	34 - 37	38 - 39	40 - 41	42 - 45	46 - 49	50 - 55
Grade 2																
Card 3																
Grade 3																
Card 4																
Grade 4																
Card 5																
Grade 6																
Card 6																
Grade 7	211	161	May Sep	Math	Adv.	JS	655.5	32	40.1	717.4	44	46.8	6.7	1078.7		
Card 7																
Grade 8	147	158	May Sep	Math	Adv.	JS	691.0	30	39.0	729.2	38	43.6	4.6	726.8		
Card 8																
Grade 9	296	263	May Sep	Math	Adv.	JS	716.8	32	40.1	753.2	42	45.8	5.7	1499.1		
Card 9																
Grade 10	100	76	May Sep	Math	Adv.	JS	729.6	32	40.1	763.4	38	43.6	3.5	266.0		
Card 10																
Grade 11																
Card 11																
Grade 12																
Card 12																

cores are included in this column only when the test manual converts scores to percentiles.